

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION N	O. I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/028,778		12/28/2001	Hiroaki Tanaka	GNE463A	4276
466	7590	08/11/2005		EXAM	INER
YOUNG	& THOM	PSON	ERDEM	ERDEM, FAZLI	
745 SOU	TH 23RD S	TREET		ART UNIT	
2ND FLO	2ND FLOOR				PAPER NUMBER
ARLINGTON, VA 22202				2826	
				DATE MAIL ED: 08/11/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/028,778	TANAKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Fazli Erdem	2826				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 25 May 2005.						
2a) This action is FINAL. 2b)						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☑ Claim(s) <u>2,4,6-11 and 15-53</u> is/are pen 4a) Of the above claim(s) is/are 5) ☑ Claim(s) <u>2,4,6,8-11 and 15-53</u> is/are al 6) ☑ Claim(s) <u>7</u> is/are rejected. 7) ☐ Claim(s) is/are objected to.	Claim(s) 2,4,6-11 and 15-53 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 2,4,6,8-11 and 15-53 is/are allowed. Claim(s) 7 is/are rejected.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.						
Information Disclosure Statement(s) (PTO-1449 or PTo Paper No(s)/Mail Date	formal Patent Application (PTO-152) —					

Application/Control Number: 10/028,778

Art Unit: 2826

DETAILED ACTION

Allowable Subject Matter

1. Claims 2, 4, 6, 8-11 and 15-53 allowed.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claim 7 rejected under 35 U.S.C. 102(e) as being anticipated by Kimura et al. (6,632,696)

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding Claim 7 Kimura et al. disclose a manufacturing method of active matrix substrate plate and manufacturing method therefor where in Figs. 53A-53D and in Fig 182 an active matrix substrate having a transparent dielectric plate, thin film transistors Tf arranged of the plate and pixel electrodes 41 arranged on the plate, gate electrodes 12 of TFTs Tf having a

Application/Control Number: 10/028,778 Page 3

Art Unit: 2826

electrodes and having a first multilevel conductive structure. In Figs. 53A-53B, this multilevel conductive structure is shown to be a two layers TiN and Al-based conductive structure. However, in paragraphs 278, 300, 317 and 335, the required three layer laminate conductive structure is disclosed. Paragraph 278 specifically points out that the three layer multilevel conductive structure has a layer of Ti in the bottom, Al in the middle and TiN at top. Furthermore, the same paragraphs and Claim 11 disclose that the nitrogen concentration of the TiN film to be at least 25%

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EVAN PERT
PRIMARY EXAMINER